

FIG. 1

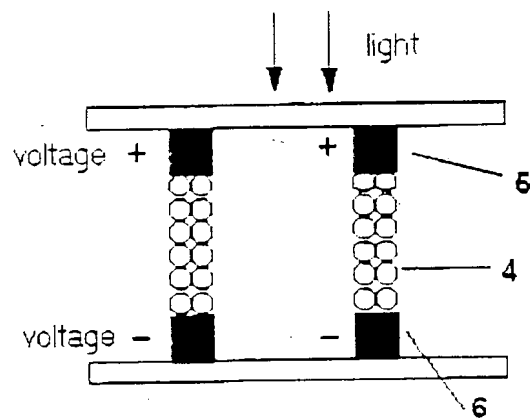


FIG. 2

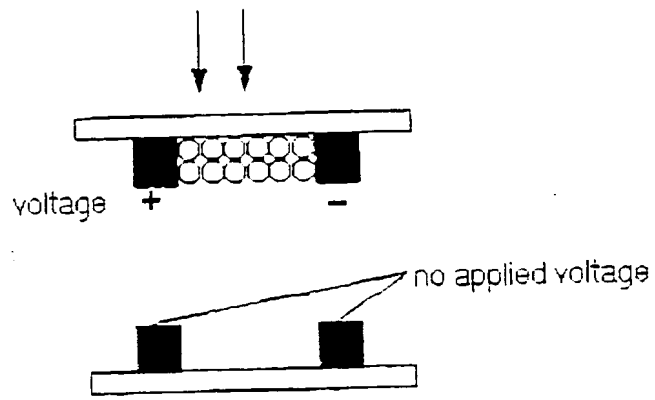


FIG. 3

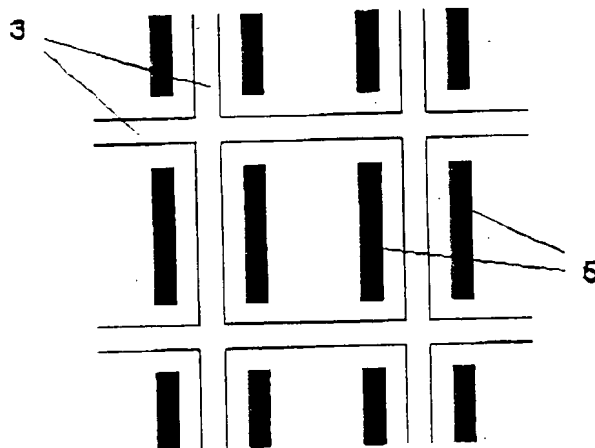
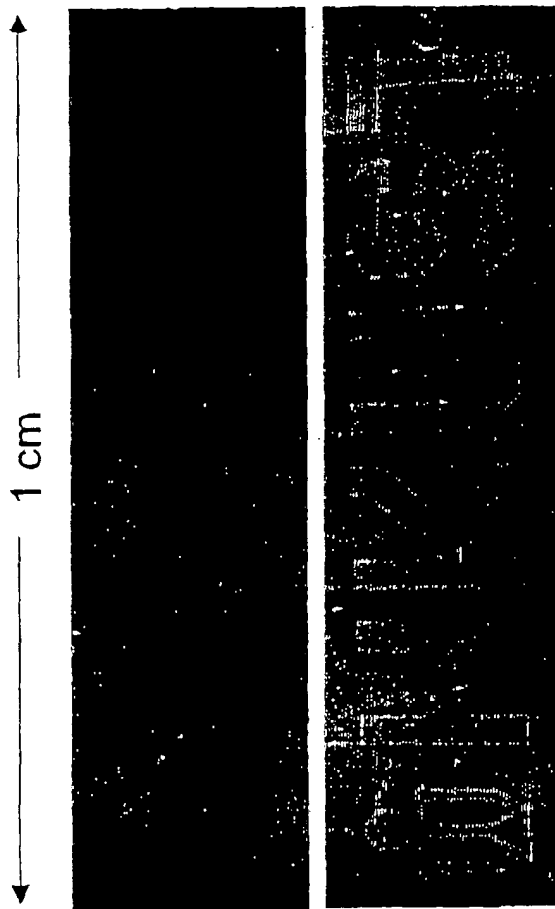


FIG. 4

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Pictures taken for a real prototype:

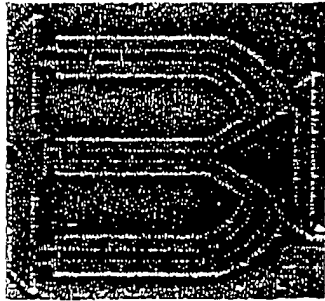
Upper panel: Electric field off

Lower panel: Electric field on. Field strength= 40 V/mm.  
BaTiO<sub>3</sub> particles (50nm diameter) suspended in silicone oil

Fig. 5(a)

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1mm



Another picture showing that the ER particles  
aggregate forming a particular pattern  
Electric field ~ 30 to 50 V/mm

Fig. 5(s)